

IN THE CLAIMS

1. (currently amended) An information transmission method, comprising:

acquiring one or more of audio information and video information of a performance at a given location;

detecting, concurrent with the acquiring of the one or more of audio information and video information, bio-information of at least one individual present at the given location;

partitioning the acquired one or more of audio information and video information into lengths of partitioned data each of which corresponds to a predefined time interval;

compressing and packetizing the lengths of partitioned data into a stream of first data packets having empty regions resulting from the compression of the lengths of the partitioned data;

performing statistical processing of the bio-information over predetermined time intervals corresponding to respective pluralities of the first data packets of the one or more of audio information and video information;

packetizing the statistically processed bio-information into respective pluralities of second data packets corresponding to the respective pluralities of the first data packets;

multiplexing the stream of first data packets with the second data packets by inserting each-a respective plurality of second data packets, which corresponds to one of the predetermined time intervals, into one of the empty regions of the stream that is adjacent to its corresponding-a respective

plurality of first data packets which corresponds to a same one of the predetermined time intervals; and
transmitting the multiplexed stream.

2. (previously presented) The information transmission method as set forth in claim 1, wherein the at least one individual includes a speaker, a player, an actor, an actress, or a conductor who serves as a source of the audio information, and/or a performer or a photographed person who is included within the video information.

3. (previously presented) The information transmission method as set forth in claim 1, wherein the at least one individual includes a listener who is present at the given location when the audio information is acquired and/or a viewer present at the given location when the video information is acquired.

4. - 6. (cancelled)

7. (previously presented) The information transmission method as set forth in claim 1, wherein the bio-information is selected from the group consisting of body motion, myoelectricity, body surface temperature, skin sweating, skin pressure, pulse, breath, micro-vibration, cardioelectricity, heartbeat, and blood pressure.

8. (previously presented) The information transmission method as set forth in claim 1, wherein the detected bio-information is extracted from the one or more of audio information and video information.

9. (currently amended) An information transmission apparatus, comprising:

information acquiring means for acquiring one or more of audio information and video information of a performance at a given location;

bio-information detecting means for detecting, concurrent with the acquiring of the one or more of audio information and video information, bio-information of at least one individual present at the given location; and

first packetizing means for partitioning the acquired one or more of audio information and video information into lengths of partitioned data each of which corresponds to a predefined time interval, and for compressing and packetizing the lengths of partitioned data into a stream of first data packets having empty regions resulting from the compression of the partitioned data;

bio-information analysis means for performing statistical processing of the bio-information over predetermined time intervals corresponding to respective pluralities of the first data packets of the one or more of audio information and video information;

second packetizing means for packetizing the statistically processed bio-information into respective pluralities of second data packets corresponding to the respective pluralities of the first data packets;

multiplexing means for multiplexing the stream of first data packets with the second data packets by inserting each a respective plurality of second data packets, which corresponds to one of the predetermined time intervals, into one of the empty regions of the stream that is adjacent to its corresponding a respective plurality of first data packets which corresponds to a same one of the predetermined time intervals; and

transmission means for transmitting the multiplexed stream.

10. (previously presented) The information transmission apparatus as set forth in claim 9, wherein the at least one individual includes a speaker, a player, an actor, or a conductor who serves as a source of the audio information, and/or a performer or a photographed person who is included within the video information.

11. (previously presented) The information transmission apparatus as set forth in claim 9, wherein the at least one individual includes a listener who is present at the given location when the audio information is acquired and/or a viewer present at the given location when the video information is acquired.

12. - 14. (cancelled)

15. (previously presented) The information transmission apparatus as set forth in claim 9, wherein the bio-information is selected from the group consisting of body motion, myoelectricity, body surface temperature, skin sweating, skin resistance, pulse, breath, micro-vibration, cardioelectricity, heartbeat, and blood pressure.

16. (previously presented) The information transmission apparatus as set forth in claim 9, wherein the bio-information detecting means extracts the detected bio-information from the one or more of audio information and video information.

17. (currently amended) An information recording method, comprising:

acquiring one or more of audio information and video information of a performance at a given location;

detecting, concurrent with the acquiring of the one or more of audio information and video information, bio-information of at least one individual present at the given location;

partitioning packetizing the acquired one or more of audio information and video information into lengths of partitioned data each of which corresponds to a predefined time interval;

compressing and packetizing the lengths of partitioned data into a stream of first data packets having empty regions resulting from the compression of the partitioned data;

performing statistical processing of bio-information over predetermined time intervals corresponding to respective pluralities of first data packets of one or more of audio information and video information;

packetizing the statistically processed bio-information into respective pluralities of second data packets corresponding to the respective pluralities of the first data packets;

multiplexing the stream of first data packets with the second data packets by inserting ~~each-a~~ respective plurality of second data packets, which corresponds to one of the predetermined time intervals, into one of the empty regions of the stream that is adjacent to ~~its~~ ~~corresponding-a~~ respective plurality of first data packets which corresponds to a same one of the predetermined time intervals; and

recording the multiplexed stream onto a predetermined recording medium.

18. (previously presented) The information recording method as set forth in claim 17, wherein the at least one individual includes a speaker, a player, an actor, or a conductor who serves as a source of the audio information, and/or a performer or a photographed person who is included within the video information.

19. (previously presented) The information recording method as set forth in claim 17, wherein the at least one individual includes a listener who is present at the given location when the audio information is acquired and/or a viewer present at the given location when the video information is acquired.

20. - 22. (cancelled)

23. (previously presented) The information recording method as set forth in claim 17, wherein the bio-information is selected from the group consisting of body motion, myoelectricity, body surface temperature, skin sweating, skin resistance, pulse, breath, micro-vibration, cardioelectricity, heartbeat, and blood pressure.

24. (previously presented) The information recording method as set forth in claim 17, wherein the detected recording medium is at least one of optical disc, magnetic tape, hard disc and semiconductor memory.

25. (previously presented) The information recording method as set forth in claim 17, wherein the bio-information is extracted from the one or more of audio information and video information.

26. (currently amended) An information recording apparatus, comprising:

information acquiring means for acquiring one or more of audio information and video information of a performance at a given location;

bio-information detecting means for detecting, concurrent with the acquiring of the one or more of audio information and video information, bio-information of at least one individual present at the given location; and

first packetizing means for partitioning the acquired one or more of audio information and video information into

lengths of partitioned data each of which corresponds to a predefined time interval, and for compressing and packetizing the lengths of partitioned data into a stream of first data packets having empty regions resulting from the compression of the partitioned data;

bio-information analysis means for performing statistical processing of the bio-information over predetermined time intervals corresponding to respective pluralities of the first data packets of the one or more of audio information and video information;

second packetizing means for packetizing the statistically processed bio-information into respective pluralities of second data packets corresponding to the respective pluralities of the first data packets;

multiplexing means for multiplexing the stream of first data packets with the second data packets by inserting each-a respective plurality of second data packets, which corresponds to one of the predetermined time intervals, into one of the empty regions of the stream that is adjacent to its corresponding-a respective plurality of first data packets which corresponds to a same one of the predetermined time intervals; and

recording means for recording the multiplexed stream onto a predetermined recording medium.

27. (previously presented) The information recording apparatus as set forth in claim 26, wherein the at least one individual includes a speaker, a player, an actor, or a conductor who serves as a source of the audio information, and/or a performer or a photographed person who is included within the video information.

28. (previously presented) The information recording apparatus as set forth in claim 26, wherein the at least one individual includes a listener who is present at the given location when the audio information is acquired and/or a viewer present at the given location when the video information is acquired.

29. - 31. (cancelled)

32. (previously presented) The information recording apparatus as set forth in claim 26, wherein the bio-information is selected from the group consisting of body motion, myoelectricity, body surface temperature, skin sweating, skin resistance, pulse, breath, micro-vibration, cardioelectricity, heartbeat, and blood pressure.

33. (previously presented) The information recording apparatus as set forth in claim 26, wherein the recording medium is selected from the group consisting of optical disc, magnetic tape, hard disc, and semiconductor memory.

34. (previously presented) The information recording apparatus as set forth in claim 26, wherein the bio-information detecting means extracts the detected bio-information from the one or more of audio information and video information.

35. (currently amended) An information reproducing method, comprising:

decomposing a multiplexed data stream into respective pluralities of first data packets of one or more of audio information and video information and into corresponding respective pluralities of second data packets of statistically processed bio-information, the multiplexed data stream having each respective plurality of second data packets of the statistically processed bio-information which corresponds to a given predetermined time interval being disposed adjacent to

its corresponding a respective plurality of first data packets which corresponds to a same predetermined time interval in regions of the data stream resulting from partitioning acquired one or more of audio information and video information into lengths of partitioned data each corresponding to a predefined time interval and compressing the lengths of partitioned data, the acquired one or more of audio information and video information being acquired at a performance at a given location, the bio-information being of at least one individual present at the given location and being detected concurrent with the acquiring of the one or more of audio information and video information, the statistically processed bio-information being generated by performing statistical processing of the detected bio-information over predetermined time intervals corresponding to respective pluralities of the first data packets;

reproducing the one or more of audio information and video information for delivery to a user; and

providing, to the user, sense stimulation based on the bio-information concurrent with the delivery of the one or more of the audio information and video information.

36. (previously presented) The information reproducing method as set forth in claim 35, wherein the multiplexed data stream is received through a transmission method.

37. (previously presented) The information reproducing method as set forth in claim 35, wherein the multiplexed data stream is read out from a recording medium.

38. (previously presented) The information reproducing method as set forth in claim 35, wherein the at least one individual includes a speaker, a player, an actor, or a conductor

who serves as a source of the audio information, and/or a performer or a photographed person who is included within the video information.

39. (previously presented) The information reproducing method as set forth in claim 35, wherein the at least one individual includes a listener present at the given location when the audio information is acquired and/or a viewer present at the given location when the video information is acquired.

40. (currently amended) An information reproducing method, comprising:

decomposing a multiplexed data stream into respective pluralities of first data packets of one or more of audio information and video information and into corresponding respective pluralities of second data packets of statistically processed bio-information, the multiplexed data stream having each respective plurality of second data packets of the statistically processed bio-information which corresponds to a given predetermined time interval being disposed adjacent to ~~its corresponding a~~ respective plurality of first data packets which corresponds to a same predetermined time interval in regions of the data stream resulting from partitioning acquired one or more of audio information and video information into lengths of partitioned data each corresponding to a predefined time interval and compressing the lengths of partitioned data, the acquired one or more of audio information and video information being acquired at a performance at a given location, the bio-information being of at least one individual present at the given location and being detected concurrent with the acquiring of the one or more of audio information and video information, the

statistically processed bio-information being generated by performing statistical processing of the detected bio-information over predetermined time intervals corresponding to respective pluralities of the first data packets; and

controlling, based on the bio-information, reproduction of the one or more of audio information and video information.

41. (previously presented) The information reproducing method as set forth in claim 40, wherein the multiplexed data stream is received through a transmission medium.

42. (previously presented) The information reproducing method as set forth in claim 40, wherein the multiplexed data stream is read out from a record medium.

43. (previously presented) The information reproducing method as set forth in claim 40, wherein the at least one individual includes a speaker, a player, an actor, or a conductor who serves as a source of the audio information, and/or a performer or a photographed person who is included within the video information.

44. (previously presented) The information reproducing method as set forth in claim 40, wherein the at least one individual includes a listener present at the given location when the audio information is acquired and/or a viewer present at the given location when the video information is acquired.

45. (currently amended) An information reproducing apparatus, comprising:

means for decomposing a multiplexed data stream into respective pluralities of first data packets of one or more of audio information and video information and into corresponding respective pluralities of second data packets of statistically processed bio-information, the multiplexed data stream having

each respective plurality of second data packets of the statistically processed bio-information which corresponds to a given predetermined time interval being disposed adjacent to ~~its corresponding a~~ respective plurality of first data packets which corresponds to a same predetermined time interval in regions of the data stream resulting from partitioning acquired one or more of audio information and video information into lengths of partitioned data each corresponding to a predefined time interval and compressing the lengths of partitioned data, the acquired one or more of audio information and video information being acquired at a performance at a given location, the bio-information being of at least one individual present at the given location and being detected concurrent with the acquiring of the one or more of audio information and video information, the statistically processed bio-information being generated by performing statistical processing of the detected bio-information over predetermined time intervals corresponding to respective pluralities of the first data packets;

means for reproducing the one or more of audio information and video information for delivery to a user; and

means for providing, to the user, sense stimulation based on the bio-information concurrent with the delivery of the one or more of the audio information and video information.

46. (previously presented) The information reproducing apparatus as set forth in claim 45, further comprising: means for receiving the multiplexed data stream through a transmission medium.

47. (previously presented) The information reproducing apparatus as set forth in claim 45, further comprising: means for reading out the multiplexed data stream from a recording medium.

48. (previously presented) The information reproducing apparatus as set forth in claim 45, wherein the at least one individual includes a speaker, a player, an actor, or a conductor who serves as a source of the audio information, and/or a performer or a photographed person who is included within the video information.

49. (previously presented) The information reproducing apparatus as set forth in claim 45, wherein the at least one individual includes a listener present at the given location when the audio information is acquired and/or a viewer present at the given location when the video information is acquired.

50. (currently amended) An information reproducing apparatus, comprising:

means for decomposing a multiplexed data stream into respective pluralities of first data packets of one or more of audio information and video information and into corresponding respective pluralities of second data packets of statistically processed bio-information, the multiplexed data stream having each respective plurality of second data packets of the statistically processed bio-information which corresponds to a given predetermined time interval being disposed adjacent to ~~its corresponding a~~ respective plurality of first data packets which corresponds to a same predetermined time interval in regions of the data stream resulting from partitioning acquired one or more of audio information and video information into lengths of partitioned data each corresponding to a predefined time interval and compressing

the lengths of partitioned data, the acquired one or more of audio information and video information being acquired at a performance at a given location, the bio-information being of at least one individual present at the given location and being detected concurrent with the acquiring of the one or more of audio information and video information, the statistically processed bio-information being generated by performing statistical processing of the detected bio-information over predetermined time intervals corresponding to respective pluralities of the first data packets; and

means for controlling, based on the bio-information, reproduction of the one or more of audio information and video information.

51. (previously presented) The information reproducing apparatus as set forth in claim 50, further comprising: means for receiving the multiplexed data stream through a transmission medium.

52. (previously presented) The information reproducing apparatus as set forth in claim 50, further comprising: means for reading out the multiplexed data stream from a recording medium.

53. (previously presented) The information reproducing apparatus as set forth in claim 50, wherein the at least one individual includes a speaker, a player, an actor, or a conductor who serves as a source of the audio information, and/or a performer or a photographed person who is included within the video information.

54. (previously presented) The information reproducing apparatus as set forth in claim 50, wherein the at least one individual includes a listener present at the given location when

the audio information is acquired and/or a viewer present at the given location when the video information is acquired.

55. (currently amended) A recording medium having recorded therein a multiplexed data stream comprised of respective pluralities of first data packets of one or more of audio information and video information and corresponding respective pluralities of second data packets of statistically processed bio-information, the multiplexed data stream having each respective plurality of second data packets of the statistically processed bio-information which corresponds to a given predetermined time interval being disposed adjacent to ~~its corresponding~~a respective plurality of first data packets which corresponds to a same predetermined time interval in regions of the data stream resulting from partitioning acquired one or more of audio information and video information into lengths of partitioned data each corresponding to a predefined time interval and compressing the lengths of partitioned data, the acquired one or more of audio information and video information being acquired at a performance at a given location, the bio-information being of at least one individual present at the given location and being detected concurrent with the acquiring of the one or more of audio information and video information, the statistically processed bio-information being generated by performing statistical processing of the detected bio-information over predetermined time intervals corresponding to respective pluralities of the first data packets.

56. (previously presented) The recording medium as set forth in claim 55, wherein the at least one individual includes a speaker, a player, an actor, or a conductor who serves as a source of the audio information, and/or a performer or a photographed person who is included within the video information.

57. (previously presented) The recording medium as set forth in claim 55, wherein the at least one individual includes a listener present at the given location when the audio information is acquired and/or a viewer present at the given location when the video information is acquired.

58. (cancelled)

59. (previously presented) The recording medium as set forth in claim 55, wherein the bio-information is selected from the group consisting of body motion, myoelectricity, body surface temperature, skin sweating, skin resistance, pulse, breath, micro-vibration, cardioelectricity, heartbeat, and blood pressure.